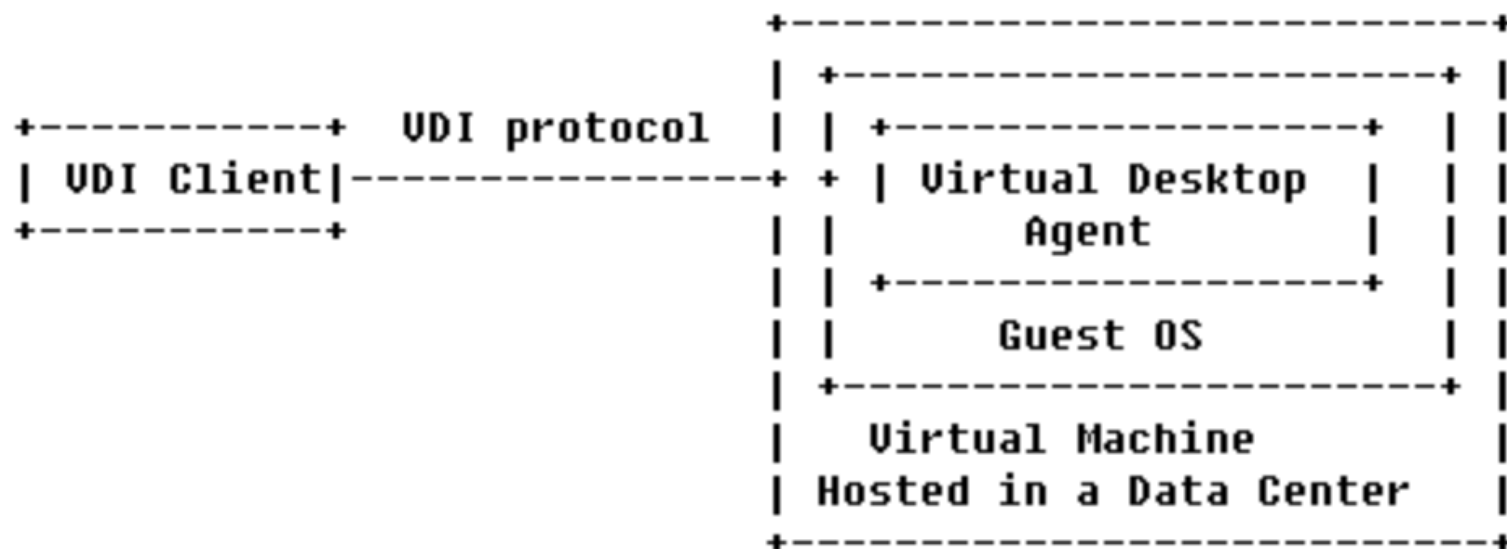# Virtual Desktop Infrastructure(VDI) discussion

AppsArea Open Meeting and APPSAWG Meeting
IETF 80, Prague, Czech Republic
Monday, March 28, 2011, 09:00-11:30

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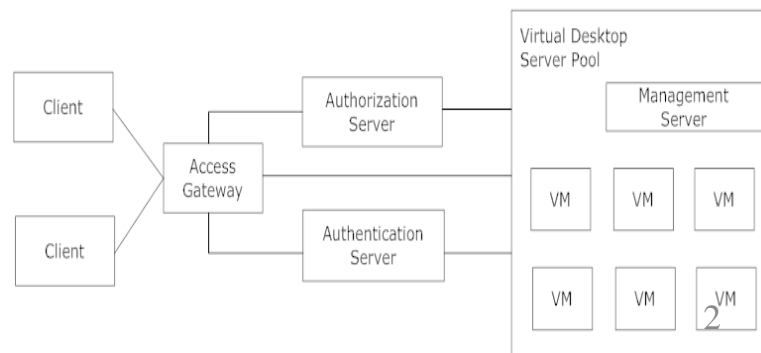
What is VDI?

- VDI consists of a few basic functional components: Virtual Desktop Client (VDC, the converged end-user device), the Virtual Desktop Agent (VDA, the control software residing in a virtual machine hosted in a data center), and a set of protocols connecting them together to deliver the desired services.

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                                +------------------------------+
                                | +--------------------------+ |
    +-------------+  VDI protocol | | +--------------------+ | |
    | VDI Client|---------------+ + | Virtual Desktop    | | |
    +-------------+              | |          Agent       | | |
                                | | +--------------------+ | |
                                | |        Guest OS        | | |
                                | +--------------------------+ |
                                |    Virtual Machine           |
                                | Hosted in a Data Center      |
                                +------------------------------+
```

VDI Products:
- Citrix XenDesktop,
- Microsoft Remote Desktop Service (RDS)
- RedHat Enterprise Virtualization for Desktops
- VMware View

Possible work items

- Develop a comprehensive VDI Problem Statement and Resolution document listing the technical issues of the existing VDI systems, proposing reference architecture, and defining the scope of VDI protocol standard

- Develop a VDI Requirements document that defines the functional and operational requirements of the VDI protocol (client-to-host protocol)

- Develop a detailed VDI Protocol (client-to-host protocol) Specification

- Develop the requirements for the API between the host and the virtual desktop agent

- Develop the detailed specifications of the API between the host and the desktop agent

VDI-related Drafts

- http://tools.ietf.org/id/draft-ma-clouds-vdi-survey-00.txt
- http://tools.ietf.org/id/draft-wang-clouds-vdi-problem-statement-00.txt
- http://www.ietf.org/id/draft-cloud-log-00.txt
- http://trac.tools.ietf.org/area/app/trac/attachment/wiki/Clouds/Johnston-IETF-78-Clouds-bar-BoF-Std-Gap-28July10.pdf
- http://trac.tools.ietf.org/area/app/trac/attachment/wiki/Clouds/Karavettil-et-al-IETF-VDI-Draft-v1-03042011.pdf
- http://trac.tools.ietf.org/area/app/trac/attachment/wiki/Clouds/Protocol%20Considerations%20for%20Workload%20Mobility%20in%20Clouds.txt
- http://trac.tools.ietf.org/area/app/trac/attachment/wiki/Clouds/draft-rfc-seamless-Cloud-masum-01.txt
- http://trac.tools.ietf.org/area/app/trac/attachment/wiki/Clouds/Karavettil-et-al-IETF-Cloud-Security-Framework-11Feb2011_v2.pdf